

Molybdenum disulfide

Chemical Properties

CAS No. : 1317-33-5

Formula: MoS₂

Molecular Weight: 160.07

Storage: Store under nitrogen
Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

| | |
|---------------|---|
| Description | Molybdenum disulfide (Moly Powder B) is a novel nanomaterial that can be used to synthesize nanoprobes. |
| Targets(IC50) | Others |

Solubility Information

| | |
|------------|---|
| Solubility | DMSO: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|---|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 6.2473 mL | 31.2363 mL | 62.4727 mL |
| 5 mM | 1.2495 mL | 6.2473 mL | 12.4945 mL |
| 10 mM | 0.6247 mL | 3.1236 mL | 6.2473 mL |
| 50 mM | 0.1249 mL | 0.6247 mL | 1.2495 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Wang S, Yan Z, Shen F, Du L, Li G, Yang Q, Hu Q. Novel aptasensor based on polyaniline functionalized carboxylated dooby carbon nanotubes and molybdenum disulfide for endotoxin detection. *Talanta*. 2024 Aug 15; 276:126256.

Shi Z, et al. An innovative label-free electrochemical aptamer sensor: utilizing Ti3C2Tx/MoS2/Au NPs for accurate interleukin-6 detection. *Talanta*. 2024 Aug 15;276:126281.

Gutiérrez-Gálvez L, et al. Rapid and simple viral protein detection by functionalized 2D MoS2/graphene electrochemiluminescence aptasensor. *Talanta*. 2024 Aug 15;276:126293.

Lipatov A, Sharma P, Gruverman A, Sinitskii A. Optoelectrical Molybdenum Disulfide (MoS2)--Ferroelectric Memories. *ACS Nano*. 2015 Aug 25;9(8):8089-98. doi: 10.1021/acsnano.5b02078. Epub 2015 Jul 29. PubMed PMID: 26222209.

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